DERWENT-ACC-NO:

2001-317714

DERWENT-WEEK:

200348

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TITLE:

Laser device comprises a semiconductor laser element emitting a first laser light of a first wavelength, and a surface-emitting semiconductor element excited by the

first laser light

INVENTOR: HAYAKAWA, T

PATENT-ASSIGNEE: FUJI PHOTO FILM CO LTD[FUJF]

PRIORITY-DATA: 1999JP-0257531 (September 10, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	
MAIN-IPC US 6594297 B1 005/00	July 15, 2003	N/A	000	H015
DE 10043896 A1	April 26, 2001	N/A	021	H015
005/04 JP 2001148536 A	May 29, 2001	N/A	010	H015

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
US 6594297B1 11, 2000	N/A	2000US-0659847	September
DE 10043896A1 2000	N/A	2000DE-1043896	September 6,

JP2001148536*A* N/*A* 2000

2000JP-0258857

August 29,

INT-CL (IPC): H015003/08, H015003/091, H015005/00, H015005/04,

H01S005/065, H01S005/18, H01S005/323, H01S005/40

ABSTRACTED-PUB-NO: DE 10043896A

BASIC-ABSTRACT:

NOVELTY - Laser device comprises a semiconductor laser element emitting a first

laser light of a first wavelength; and a surface-emitting semiconductor element

which is excited by the first laser light and has a structure for <u>controlling a</u> <u>spatial mode</u> of a second laser light.

DETAILED DESCRIPTION - Preferred Features: The structure has a dimension which

is 0.1-10 times as large as the diameter on which the second laser light is spread on one point of the structure. The semiconductor laser element has a

first active layer made of a Inv2Ga1-v2N material and a second active layer made of a Inv1Ga1-v1N material (where 0 less than v1 less than v2 less than 1).

USE - As a semiconductor laser device.

ADVANTAGE - High speed modulation of the laser light is achieved.

CHOSEN-DRAWING: Dwg.0/12

TITLE-TERMS: LASER DEVICE COMPRISE SEMICONDUCTOR LASER ELEMENT EMIT FIRST LASER

09/19/2003, EAST Version: 1.04.0000

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LIGHT FIRST WAVELENGTH SURFACE EMIT SEMICONDUCTOR ELEMENT

EXCITATION FIRST LASER LIGHT

DERWENT-CLASS: LO3 VO8

CPI-CODES: L04-A02D; L04-E03B;

EPI-CODES: V08-A02B; V08-A03B; V08-A04A;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2001-098110
Non-CPI Secondary Accession Numbers: N2001-228115